

## THE UTILIZATION OF COAL

J. D. Clendenin

Applied Research Laboratory  
United States Steel Corp.  
Monroeville, Pa. 15146

ABSTRACT

A brief survey is presented of current and prospective utilization of coals, including lignite, (1) in the production of metallurgical, chemical and specialty cokes, (2) as fuel for process steam, space and home heating, locomotives and ship bunkers, (3) in the manufacture of industrial producer gas and gas for chemical synthesis, (4) as fuel in cement and lime kiln firing, (5) at steel and rolling mills and (6) in a variety of specialty and/or non-fuel uses, including industrial carbons, active carbon, fillers, filter aids and media, water treatment, foundry facing, road building, roofing and coating applications, barbecue briquets, fertilizer and soil conditioner, coal-based plastics, etc.

Insofar as possible, information is presented on process and product research and other developments that may affect coal utilization, favorably or unfavorably, in the areas cited. Since economics of coal utilization cannot be divorced from economics of coal supply and transportation, these are touched upon briefly although they are subjects of separate presentations in the Symposium.